

FIG. 1

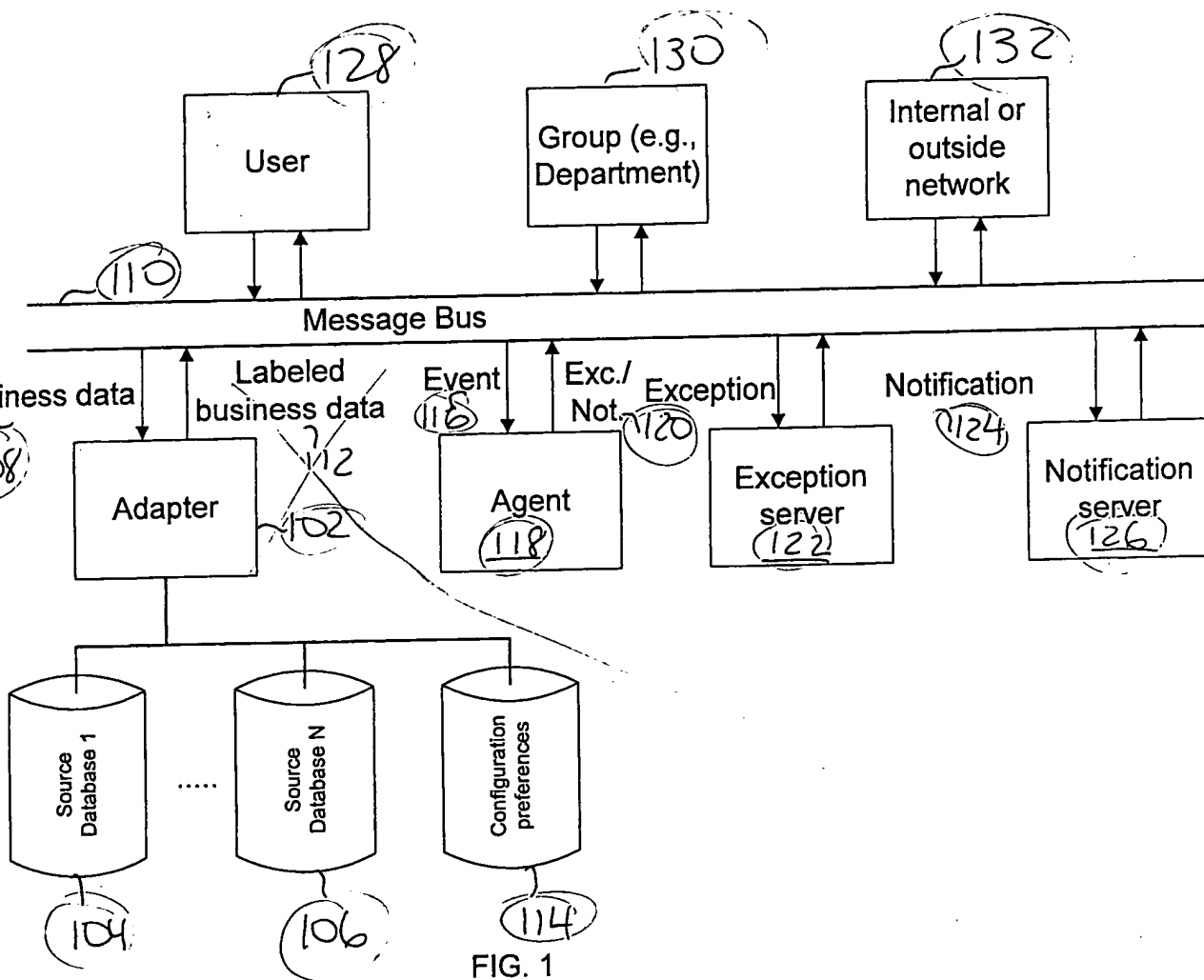


FIG. 1

← Business attribute #1

← Business attribute #2

206

{202

210

X208

212

212

Inventory level for SKU2 ← Business metric #2

1

•

1

FIG. 2

THE **NEW** **YORK** **PUBLIC** **LIBRARY**

FIG. 3

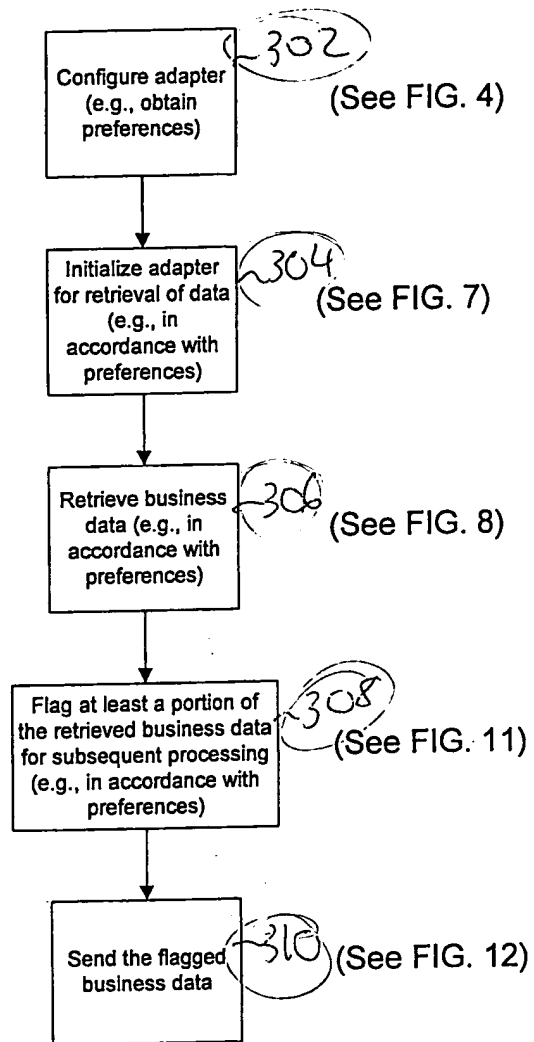


FIG. 3

0500337 060001
T 00000 150000

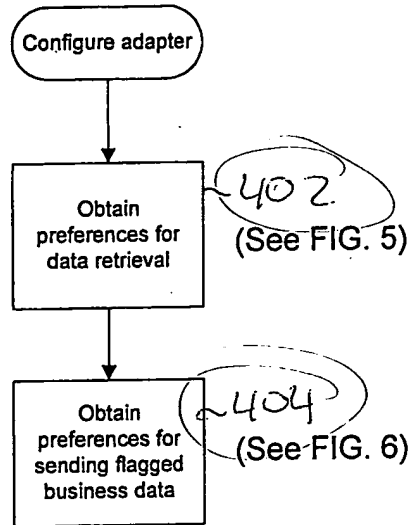


FIG. 4

FIG. 5

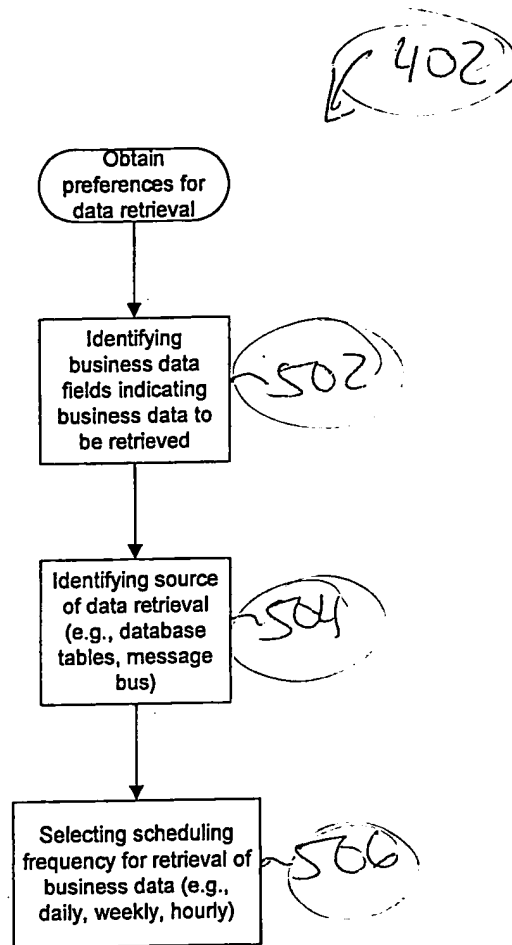


FIG. 5

404

Obtain preferences for
sending flagged
business data

Identifying business
attributes of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

602

Identifying business
metrics of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

604

US 2009/062230 A1

FIG. 6

09886397 062004

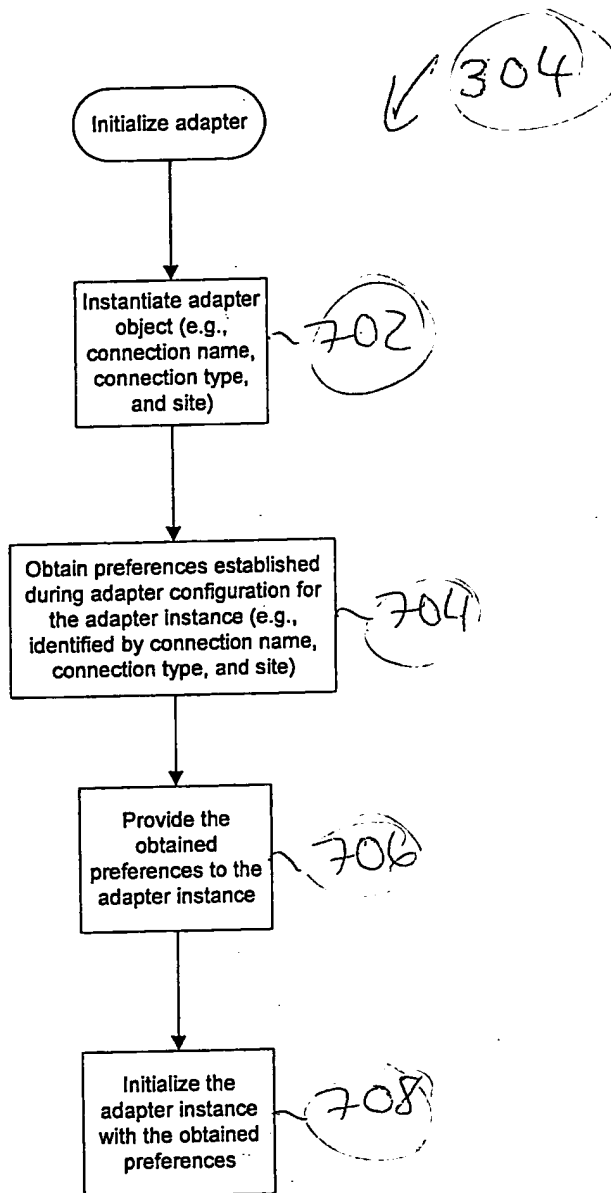


FIG. 7

09006397 000004

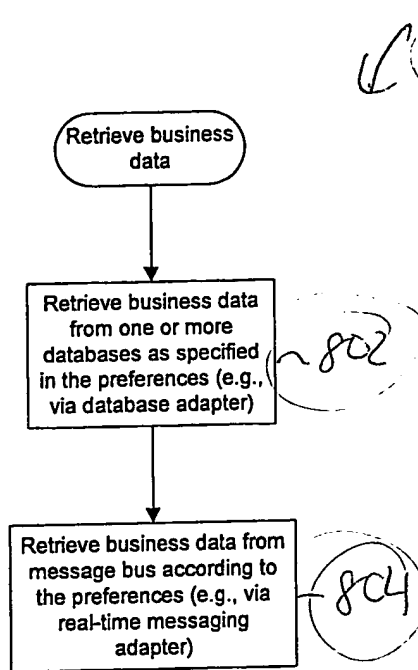


FIG. 8

✓ 802



904

1102 1106 1104

Attribute name	Data type	Attribute value	Attribute #	Metric value flag
Customer	String	"SHOES INC"	1	
Order No.	Integer	42859	2	
Ship date	String	"01/04/01"		
SKU1	Integer	000195		
Number of orders - SKU1	Integer	4		
Inventory level for SKU1	Integer	97		1
SKU2	Integer	000228		
Number of orders - SKU2	Integer	16		
Inventory level for SKU2	Integer	31		2

FIG. 11

FIG. 11

Message

Subject name	1202
Array (see FIG. 11)	1204

FIG. 12

093839 08204
100299 1559950

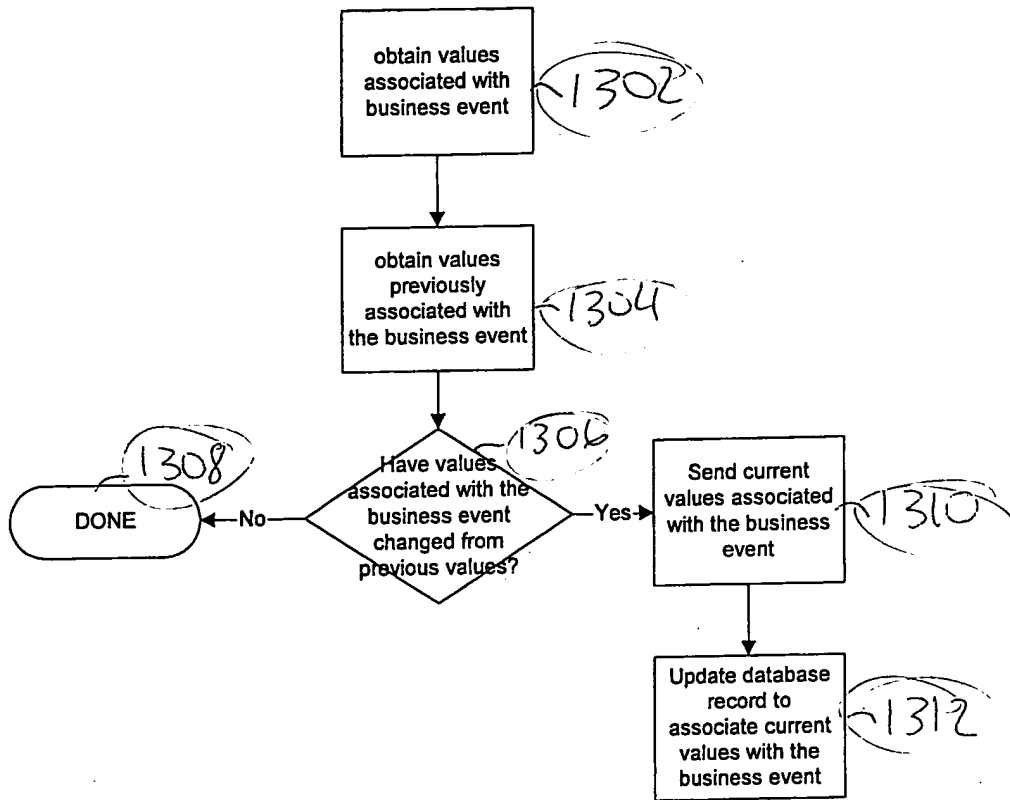
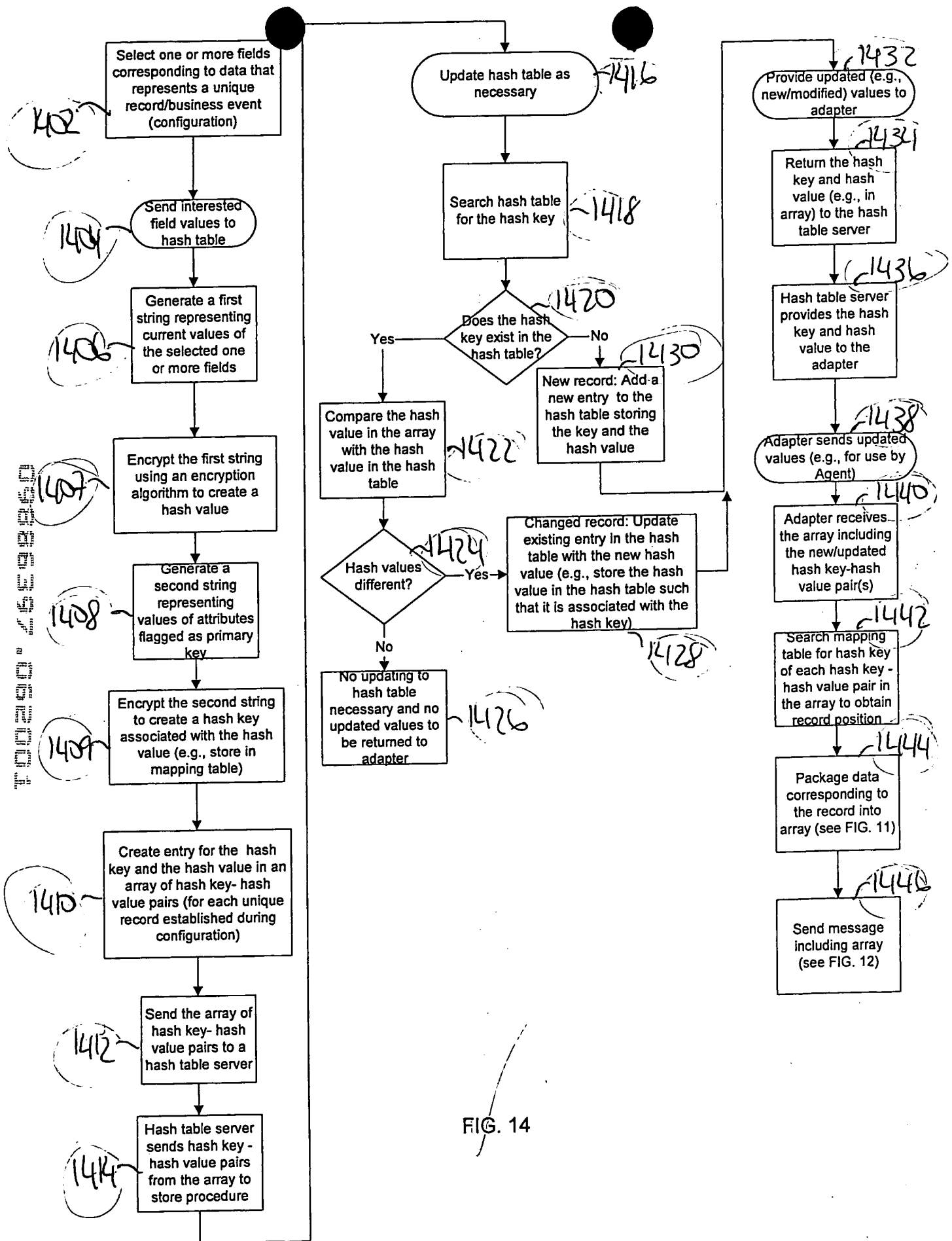


FIG. 13



1502 1504

Hash key	Hash value
Key 1	String 1
Key 2	String 2

FIG. 15

1602 Mapping Table 1604

Hash key	Original record position (e.g., pointer)

FIG. 16

100290" 15599960

FIG. 17

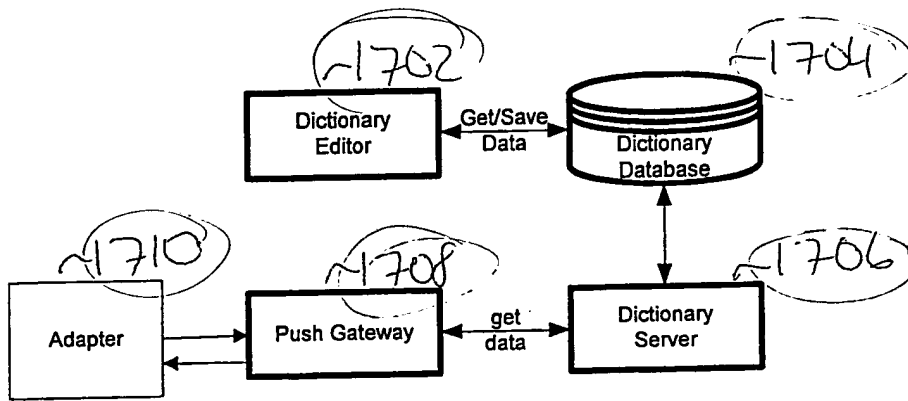


FIG. 17

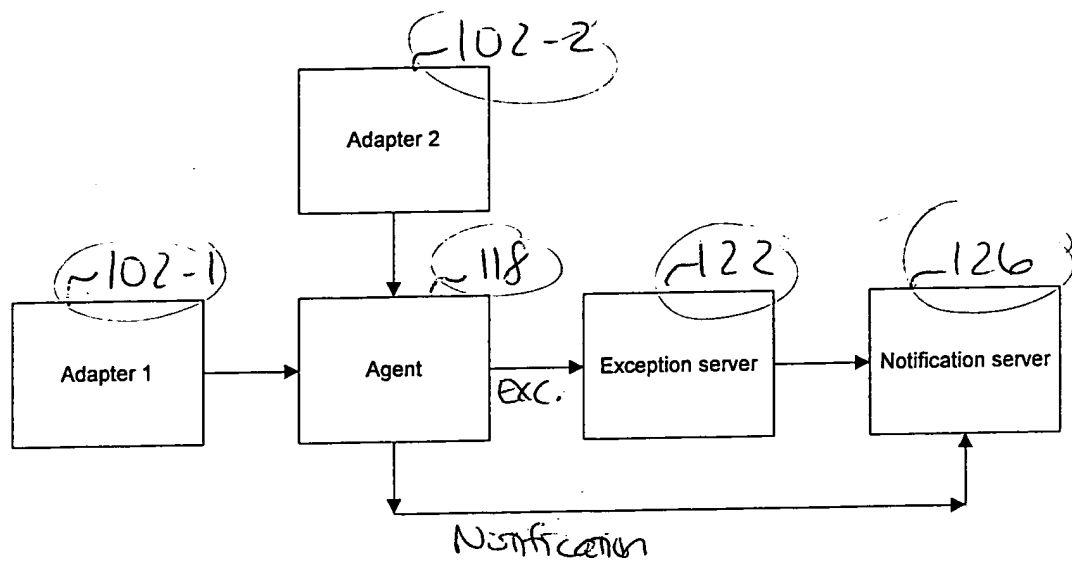


FIG. 18

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846.

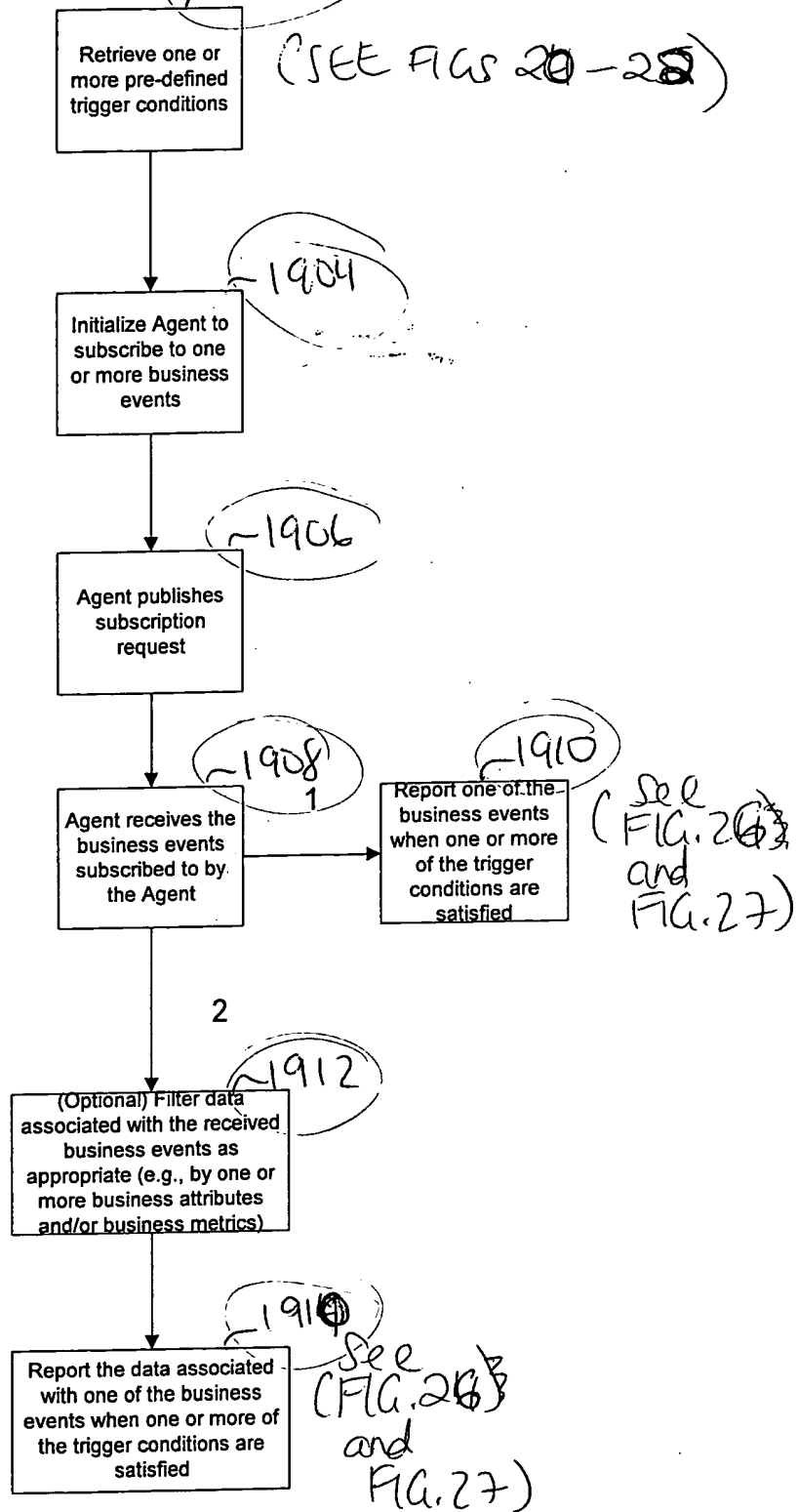


FIG. 19

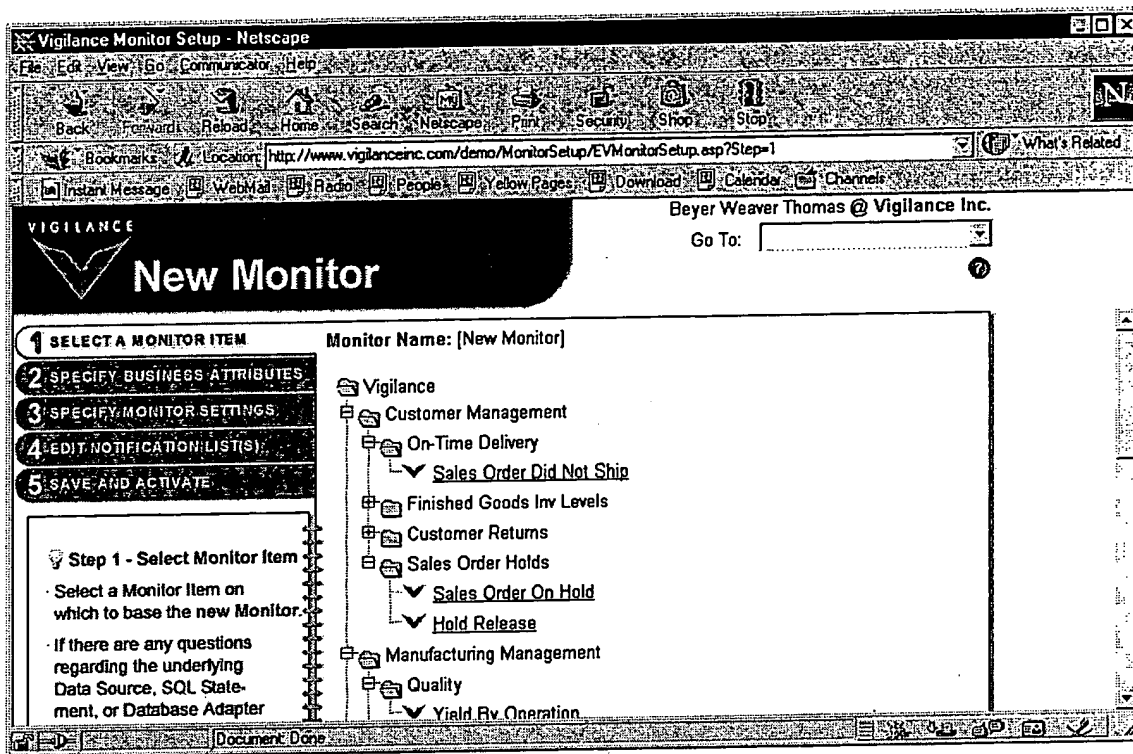


FIG. 20

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?MonitorItem=lateshipment&Step=2> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.

Go To:

1 SELECT A MONITOR ITEM Monitor Name: [New Monitor] **STEP 1 STEP 3**

2 SPECIFY BUSINESS ATTRIBUTES Monitor Item: Sales Order Did Not Ship

3 SPECIFY MONITOR SETTINGS

4 EDIT NOTIFICATION LIST(S)

5 SAVE AND ACTIVATE

Step 2 - Specify Business Attribute Values

- Business Attribute Values are case-sensitive.
- Business Attribute Values are optional.

Business Attribute: Order

Enter/Select Attribute Values

Track These Values

Business Attribute: Product Family

Enter/Select Attribute Values

[Select Values]
DiskDrive100
DiskDrive200
HardDrive100
PackagedDrives

Track These Values

Business Attribute: Plant

Document Done

FIG. 21

FIG. 21

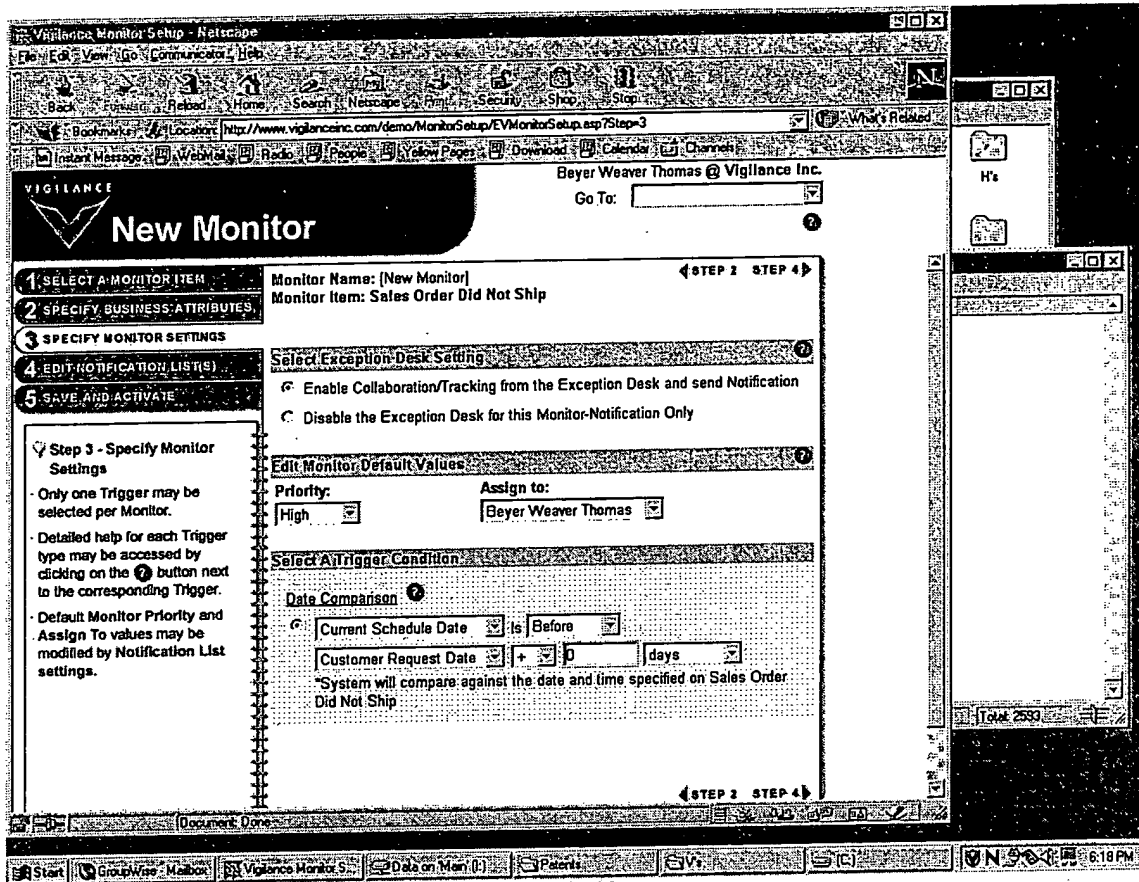


FIG. 22

0906357 00001

Vigilance Monitor Setup - Netscape

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Bookmarks Location <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=4> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

Bayer Weaver Thomas @ Vigilance Inc.

Go To:

VIGILANCE New Monitor

1 SELECT A MONITOR ITEM

2 SPECIFY BUSINESS ATTRIBUTES

3 SPECIFY MONITOR SETTINGS

4 EDIT NOTIFICATION LIST(S)

5 SAVE AND ACTIVATE

Monitor Name: [New Monitor]

Monitor Item: Sales Order Did Not Ship

Notification Lists Priority Assign To Delete

[No Notification Lists Have Been Created For This Monitor.]

CREATE NEW LIST

STEP 3 STEP 5

STEP 3 STEP 5

Document Done

Step 4 - Notification Lists

- A Notification List is optional. If omitted, no email or pager messages will be sent and all exceptions will be prioritized and assigned to individuals as specified in Step 3.
- Creating multiple Notification Lists allows different individuals to be notified for particular instances of an Exception. This is specified by Business Attribute Values identified for each Notification List.

FIG/23

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.
Go To:

1 SELECT A MONITOR ITEM
2 SPECIFY BUSINESS ATTRIBUTES
3 SPECIFY MONITOR SETTINGS
4 EDIT A NOTIFICATION LIST
5 SAVE AND ACTIVATE

Step 4 - Notification Lists

- A Notification List is optional. If omitted, no email or pager messages will be sent and all exceptions will be prioritized and assigned to individuals as specified in Step 3.
- Creating multiple Notification Lists allows different individuals to be notified for particular instances of an Exception. This is specified by Business Attribute Values identified for each Notification List.

Monitor Name: [New Monitor]
Monitor Item: Sales Order Did Not Ship
List Name: [New List] ***FINISH LIST**

Select Notification Method

☒ E-Mail ☐ Alphanumeric pager ☐ Numeric pager
☐ Disable Notification Grouping for selected users.*

Select Users

| Users | Notification Recipients |
|---------------------|-------------------------|
| Alexander Jeffers | Beyer Weaver Thomas(E) |
| Amie Wang | |
| Andy Sawran | |
| Anessa Katz | |
| Beyer Weaver Thomas | |
| Bill Bailey | |
| Bill Gilster | |
| Bob Durose | |
| Brian Clausen | |

Select Notification Time

☒ At All Times or
☐ From 9:00 AM to 5:00 PM

Select Notification Days

Document Done

FIG. 24A

Vigilance Monitor Setup - Netscape

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Bookmarks Location http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6 What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.

Go To:

Select Notification Days

☒ Everyday or

☐ M, ☐ Tu, ☐ W, ☐ Th, ☐ F, ☐ Sa, ☐ Su

Select Notification Delay

☒ Notify immediately, no delay.

☐ Notify after days

☐ Notify when Exception Status is

Field-Based Notification (Based on Email Address or Alias)

☐ Use Field-Based Notification

[Select One Monitor Item Attribute]

☐ Enable Safety Net [Select One User]

Notification Method:

☐ E-Mail ☐ Alphanumeric Pagers ☐ Numeric Pagers

Notify These Recipients For

☐ All exceptions of this monitor

☒ Specific exceptions of this monitor (By Business Attributes)

Document Done

FIG. 24B

FIG. 24B

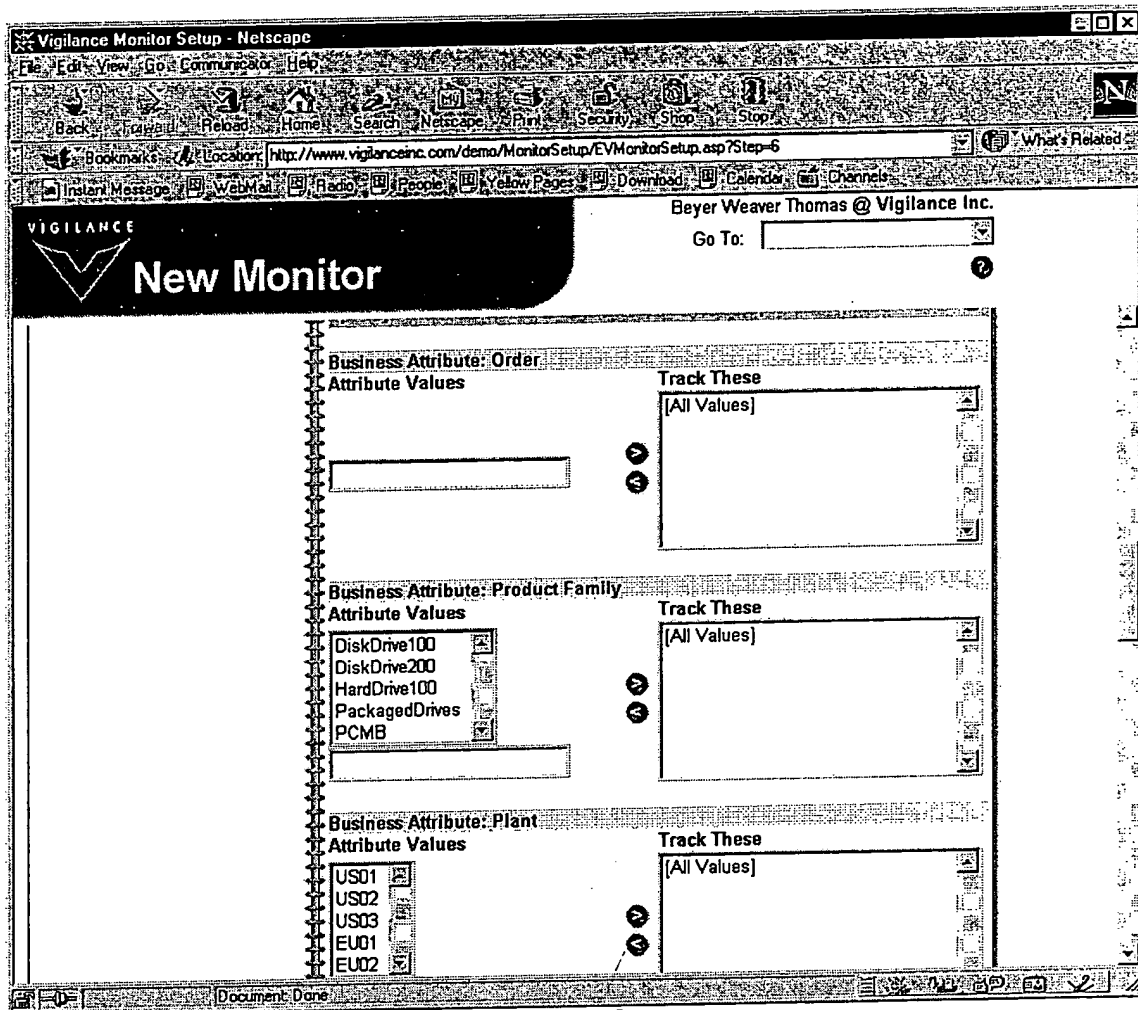


FIG. 24C

05003597 062001

Vigilance Monitor Setup - Netscape

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Bookmarks Location http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6 What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.

Go To:

Edit Notification Message

☒ Use Default Message
☐ Customize the Message

Select Exception Properties For This Notification List

Priority: Assign to:

Name Notification List

Notification List Name

Existing Lists For This Monitor

[No Existing Notification List]

FINISH LIST

Document Done

FIG. 24D

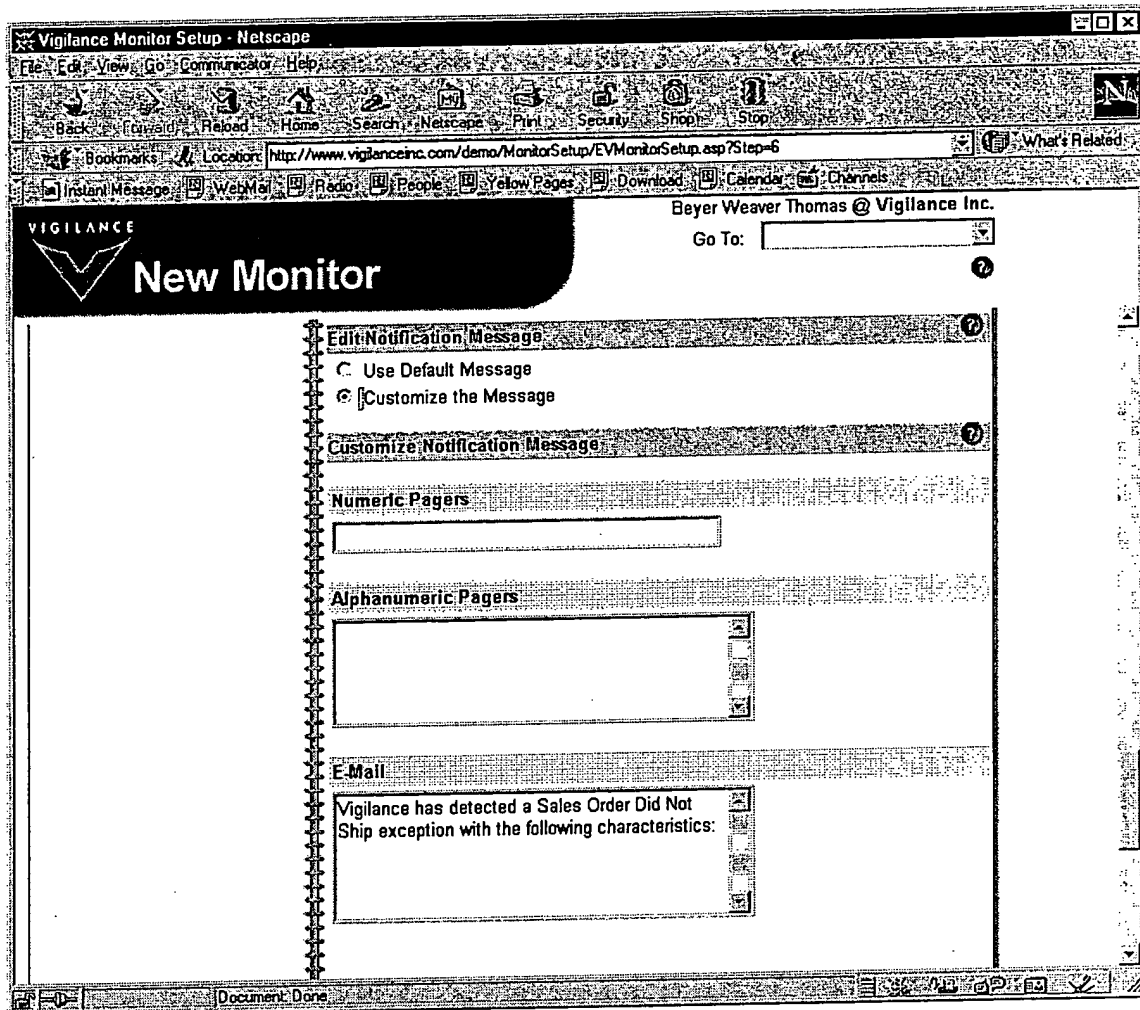


FIG. 24E

05000397 000004

09060397.060001

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=5> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE **New Monitor**

Beyer Weaver Thomas @ Vigilance Inc.
Go To:

Select Exception Properties For This Notification List

Priority: Assign to:

Name Notification List

Notification List Name

Existing Lists For This Monitor

FINISH LIST

Document Done

FIG. 24F

7

Vigilance Monitor Setup - Netscape

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Bookmarks Location http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=5 What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

Bayer Weaver Thomas @ Vigilance Inc.

Go To: ?

VIGILANCE New Monitor

- 1 SELECT A MONITOR ITEM
- 2 SPECIFY BUSINESS ATTRIBUTES
- 3 SPECIFY MONITOR SETTINGS
- 4 EDIT NOTIFICATION LIST(S)
- 5 SAVE AND ACTIVATE

Monitor Name: [New Monitor] **Monitor Item: Sales Order Did Not Ship** **STEP 4**

Edit Monitor Details ?

Monitor Name

Existing Monitors

- 1stsi - Sales order on hold demo
- Actual below .4 of forecast
- CM-BacklogAging-30Day
- CM-LatePO
- CM-LateShip-OSD

Department (Optional)

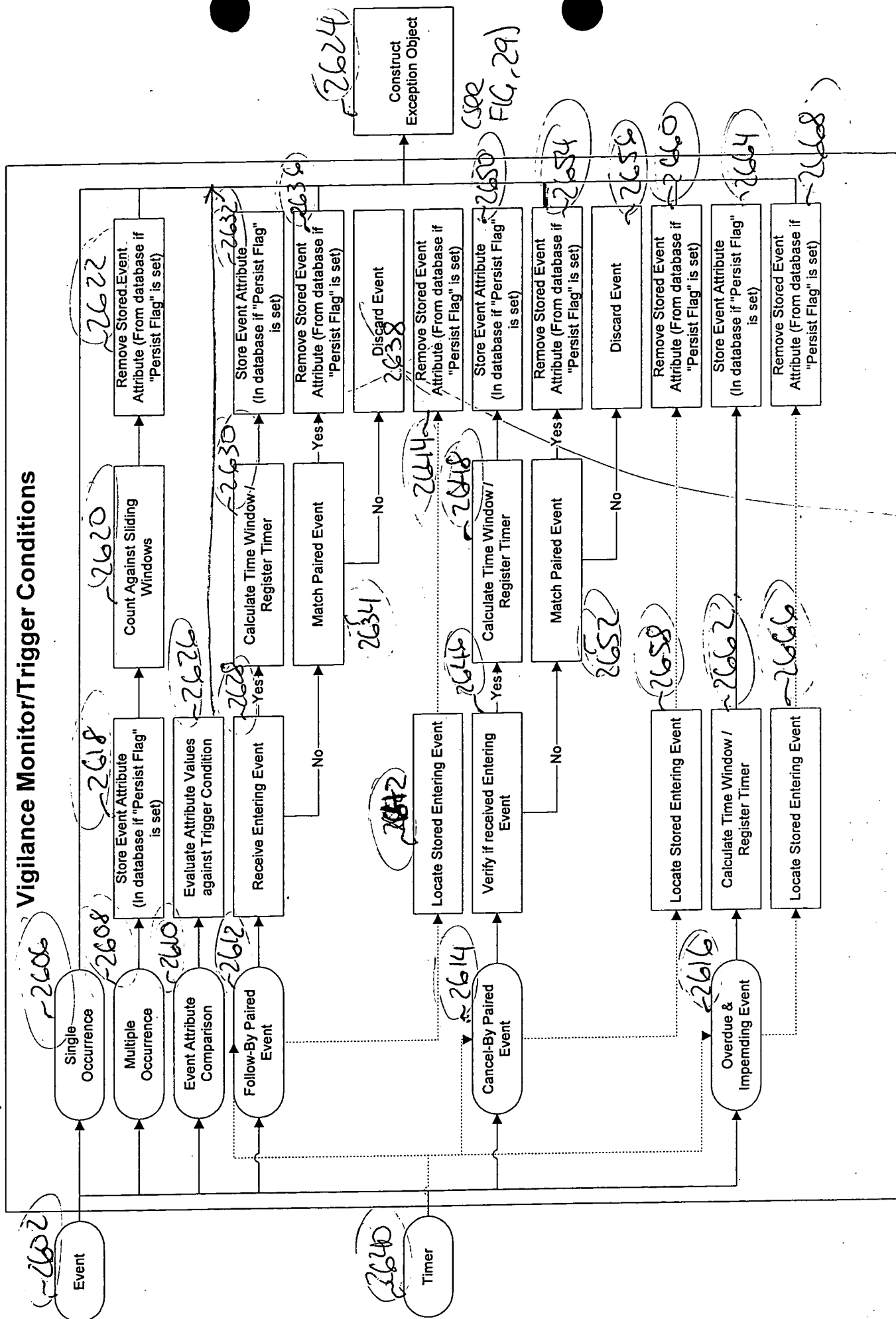
Step 5 - Save and Activate

- Choose a Monitor Name that is meaningful and will allow others to determine each Monitor's purpose.
- Descriptive prefixes for Monitor Names are recommended to aid with identification and grouping (e.g. - IM - Lot on Hold > 2 hrs., PA - Goods Receipt ⇔ Invoice Qty., etc.)
- Monitor will take effect the first time the corresponding Database Adapter runs following activation. Consult the Vigilance Dictionary Editor or your Vigilance System Administrator for Adapter run times.

Document Done

FIG. 25

Vigilance Monitor/Trigger Conditions



0928357 062001

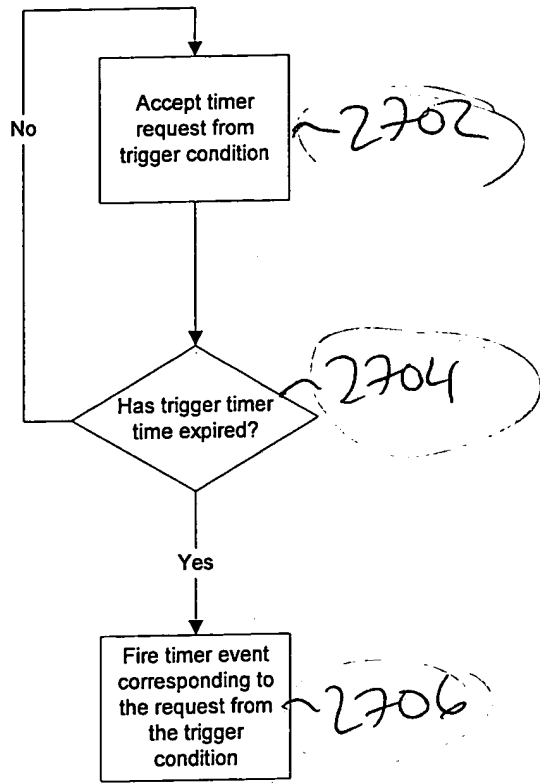


FIG. 27

Monitor object

| |
|--|
| Monitor Name
2802 |
| Monitor Author
2804 |
| Condition
2806 |
| One or more
attributes 2808
(e.g., including
one or more
values) |
| Notification 2810 |
| Assignment 2812 |

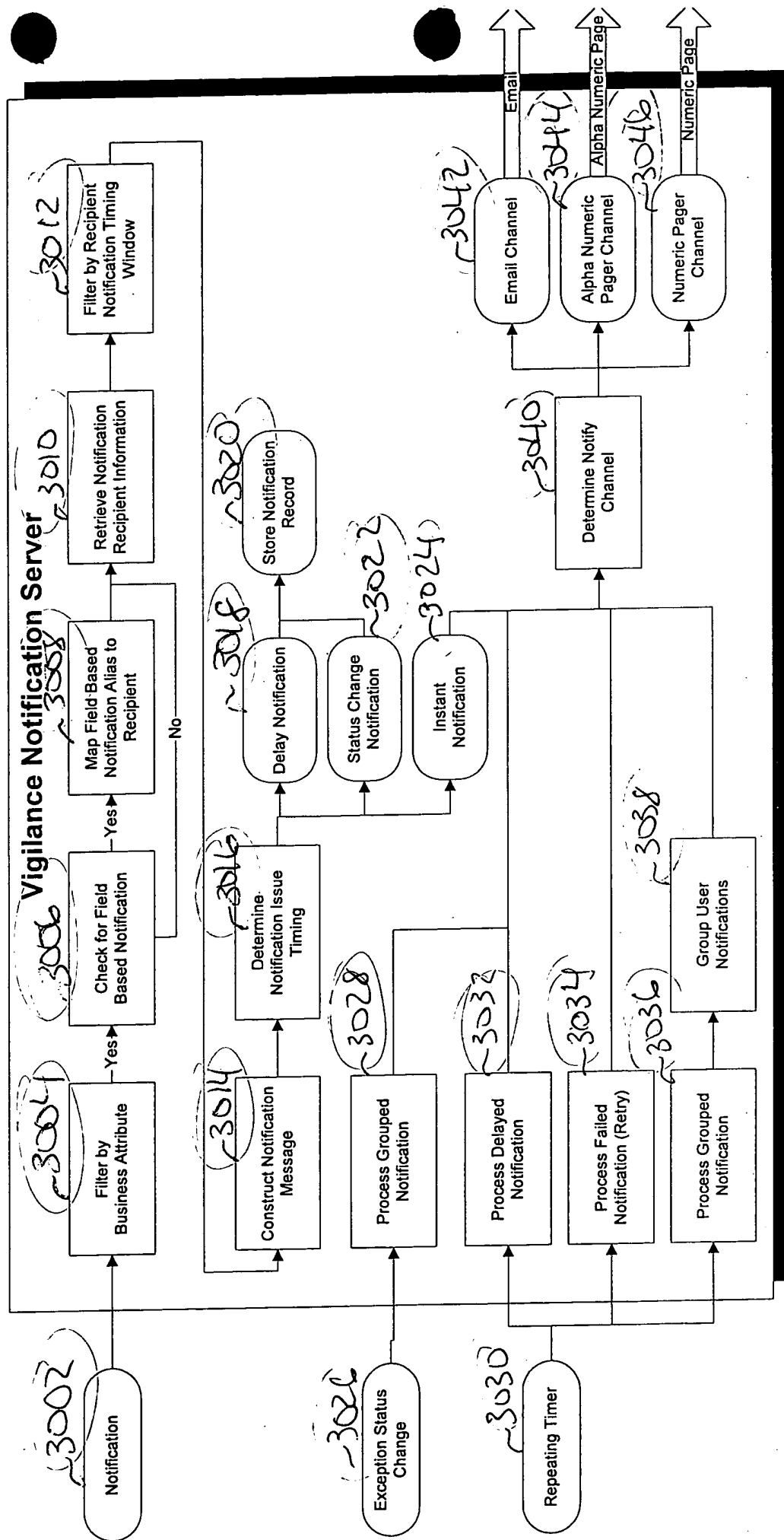
FIG. 28

Exception object

| Exception identifier 2902 | Exception description 2904 | Event identifier 2906 |
|--------------------------------------|----------------------------|---|
| Trigger condition 2908 | Trigger type 2910 | One or more attributes (e.g.,
business metrics) 2912 |
| One or more attribute values
2914 | Monitor name
2916 | Monitor item 2918 |
| Notification/exception 2920 | Assign to 2922 | Priority 2924 |
| Detection time 2926 | Analysis 2928 | Analysis author 2930 |

FIG. 29

FIG. 30



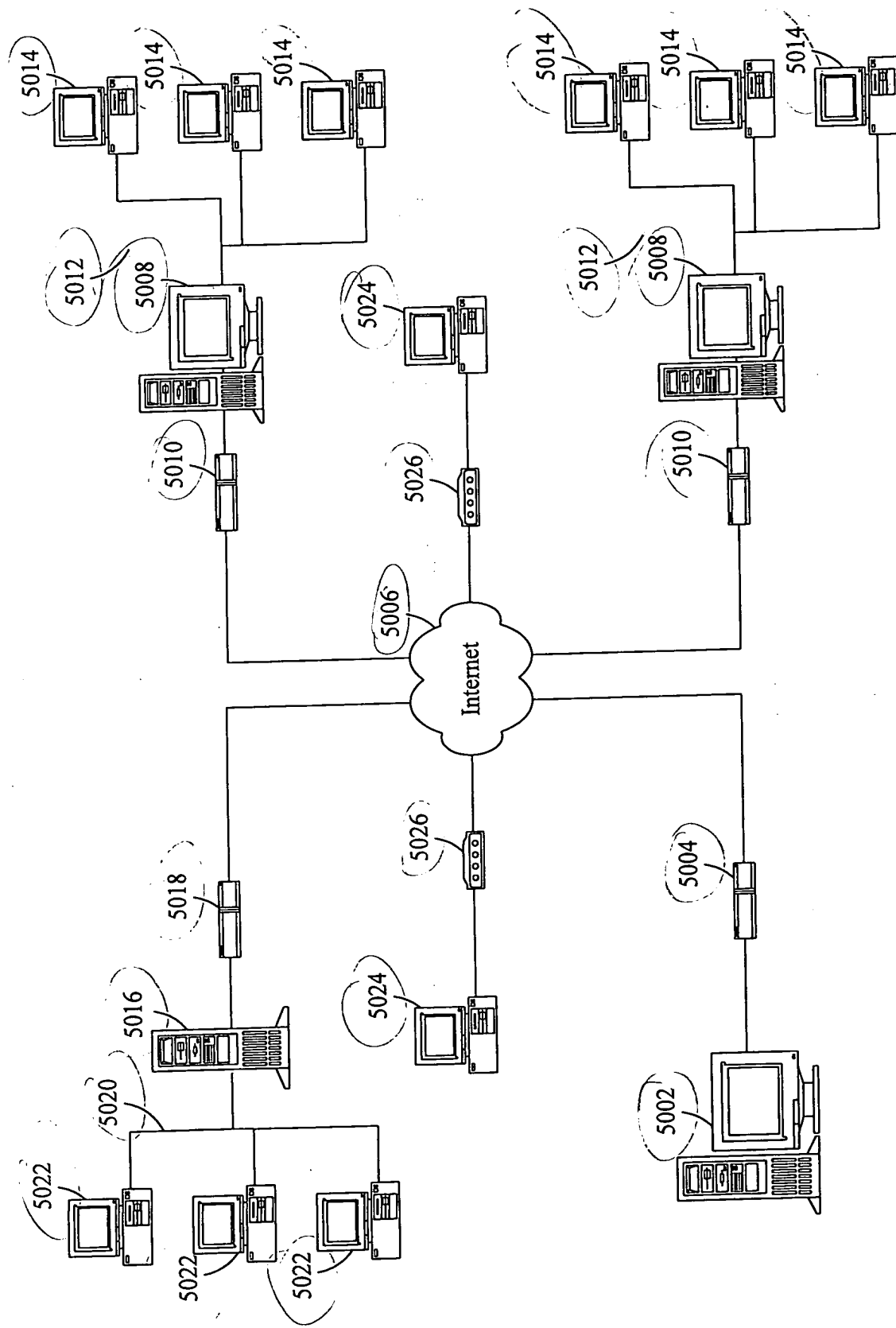


FIG. 3